

Declaration for Patent Application



Docket Number: 1875.0560002

low named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled: <u>Timing Recovery and Phase Tracking System and Method</u>,

the specification of which is attached hereto unless the following box is checked:

| ⊠ | was filed on April 30, | | | | |
|--------------------------------|--|---|---|--------------------------------|-----------------|
| | | ation Number or PCT Internat (if applicab | ional Application Number <u>09/844,296;</u> a ble). | and | |
| | y state that I have reviewed by any amendment refe | | s of the above identified specification, in | cluding the cl | aims, as |
| continu | ation-in-part applications | | to patentability as defined in 37 C.F.R. came available between the filing date of ation-in-part application. | | |
| patent, at least box, an | inventor's or plant breed one country other than the y foreign application for | er's rights certificate(s), or § 3 e United States of America, li | (a)-(d) or (f), or § 365(b) of any foreign 65(a) of any PCT international applications and have also identified beloweder's rights certificate(s), or PCT international in the control of | on, which des w, by checkin | signated ag the |
| Prior F | oreign Application(s) | | | Priority | Claimed |
| | Application No.) | (Country) | (Day/Month/Year Filed) | □ Yes | □ No |
| | Application No.) | (Country) | (Day/Month/Year Filed) | □ Yes | □ No |
| Send C | orrespondence to: | | | | |
| | | | LDSTEIN & FOX P.L.L.C. | | |
| | | | k Avenue, N.W. e 600 | | |
| | | | .C. 20005-3934 | | |
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| | • | (202) 3 | 71-2600 | | |

Appl. No.: 09/844,296 Docket No.: 1875.0560002

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| Full name of sole or first inventor Aaron W. Buchwald | | | |
|---|--|--|--|
| Signature of sole or first inventor August Bushaudt Of oct 2001 | | | |
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| Signature of second inventor Myles H William 8 Auts 2001 | | | |
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| Signature of third inventor Much 8/7/01 | | | |
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Appl. No.: 09/844,296 Docket No.: 1875.0560002

| Full name of fourth inventor SEPHUS Lurgen Van Engelen | | |
|--|--|-------------|
| Signature of fourth inventor | A STATE OF THE STA | 8/14/6 |
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| Citizenship | Netherlands | |
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| Full name of fifth inventor | Xicheng Jiang | |
| Signature of fifth inventor | Tice of | Date 8/6/0/ |
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| Full name of sixth inventor | Hui Wang | |
| Signature of fifth inventor | Mezzi | 8/6/01 |
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Appl. No.: 09/844,296 Docket No.: 1875.0560002

| Full name of seventh inventor | | | |
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| | Howard A. Baumer | | |
| Signature of fifth inventor | reard Off | 8/8/2001 | |
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| Full name of eighth inventor | Avanindra Madisatti | | |
| Full name of eighth inventor | Avanindra Madisetti | | |
| Full name of eighth inventor Signature of fifth inventor | Avanindra Madisetti Avanuva | Date Aug 8, 200 1 | |
| | Avaners | | |
| Signature of fifth inventor Residence | | | |
| Signature of fifth inventor | Avaneryn, Coto De Caza, California | | |
| Signature of fifth inventor Residence | Avaneryn, Coto De Caza, California | Aug 8,200 STATES | |

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(Supply similar information and signature for subsequent joint inventors, if any)

POWER OF ATTORNEY FROM ASSIGNEE



Broadcom Corporation, a corporation of California, having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-3616, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on (1) to U.G., (2) A A O (3) A O (4) B O (4) B O (5) B O (6) B O (7) B O (8) B O (8)

The Assignee hereby appoint the U.S. attorneys associated with CUSTOMER NUMBER 28393 to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688, Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; John M. Covert, Esq., Reg. No. 38,759; and Linda E. Alcorn, Esq., Reg. No. 39,588. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 U.S.A.

Direct phone calls to 202-371-2600.

| FOR: | Broadgamy Corporation |
|------------|--|
| SIGNATURE: | Maulle |
| BY: | William J. Ruehle |
| TITLE: | Vice President and Chief Financial Officer |
| DATE: | October 12, 2001 |

Certificate Under 37 C.F.R. § 3.73(b)

| Applicar | nt/Patent Owner: BUCHWALD et al. |
|--------------|--|
| Applicat | tion No./Patent No.: 09/844,296 Filed/Issue Date: April 30, 2001 |
| Entitled: | Timing Recovery and Phase Tracking System and Method |
| Broadco | om Corporation, a Corporation |
| (Nan | ne of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) |
| states tha | at it is: |
| 1. [X] | the assignee of the entire right, title, and interest, or |
| 2. [] | an assignee of an undivided part interest |
| in the pa | tent application/patent identified above by virtue of either: |
| A. [X] OR | An Assignment from the inventors of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. |
| OK | |
| B. [] | A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below: |
| | 1. From: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. 2. From: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. |
| [] Copi | 3. From: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached. [] Additional documents in the chain of title are listed on a supplemental sheet. es of assignments or other documents in the chain of title are attached. |
| | [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8] |
| The und | ersigned (whose title is supplied below) is empowered to act on behalf of the assignee. |
| Date: _ | October 12, 2001 |
| Name: _ | William J. Ruehle |
| Title: | Vice President and Chief Financial Officer |
| Signatur | e: Mfkmll |
| | |

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DO NOT FORWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

ASSIGNMENT

Docket Number: 1875.0560002

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: (1) Aaron W. BUCHWALD, (2) Myles WAKAYAMA, (3) Michael LE, (4) Jurgen VAN ENGELEN, (5) Xicheng JIANG, (6) Hui WANG, (7) Howard A. BAUMER and (8) Avanindra MADISETTI, the undersigned inventors hereby sells and assigns to Broadcom Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☐ for the United States of America (as defined in 35 U.S.C. § 100), ☐ and throughout the world,

(a) in the invention known as <u>Timing Recovery and Phase Tracking System and Method</u> for which application(s) for patent in the United States of America has (have) been executed by the undersigned on (1) O4 OT O1 (2) \$\frac{3}{9}\frac{6}{0}\frac{3}{3}\frac{8}{2\oightarrow}\frac{1}{2\oightarrow}\frac{1}{3}\frac{1}{2\oightarrow}\frac{1}{3}\frac{1}{3\oightarrow}\frac{1}{3\oi

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

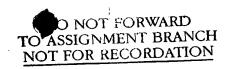
all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

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Appl. No. 09/844,296 Docket Number: 1875.0560002

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOXP.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

| | Date: | 61 OCT 2001 | Signature of Inventor: | Auga Buchwall |
|----------------------|-------|-------------|------------------------|-------------------------|
| | | | | (1) Aaron W. BUCHWALD |
| درا | Date: | 8 AUG 2001 | Signature of Inventor: | Myles H Wefreger |
| SG | | , , | · . | • , |
| DO ASSI T FO | Date: | 8/7/01 | Signature of Inventor: | Michael LE |
| S S S | | | | (3) Michael LE |
| RECENT | Date: | 8/14/01 | Signature of Inventor: | |
| | | | , | (4) Jurgon VAN ENGELEN |
| VARI BRAI DATI | Date: | 2/6/01 | Signature of Inventor: | fict of |
| | | , | | (5) Xicheng JIANG |
| - H | Date: | X / Z / A / | Signature of Inventor: | mazz. |
| | | | | (6) Hui WANG |
| | Date: | 8/8/2001 | Signature of Inventor: | Morros de Como |
| | | | • | (7) Howard A. BAUMER |
| | Date: | 8/8/2011 | Signature of Inventor: | Ananinis. |
| | vale. | | Signature of Inventor: | (8) Avanindra MADISETTI |

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